ALASKA DIVISION OF GEOLOGICAL & GEOPHYSICAL SURVEYS Chronostratigraphic Correlation of Bear Lake PRELIMINARY INTERPRETIVE REPORT 2005-07 **DECKER AND OTHERS (2005) Formation Measured Sections** SHEET 2 Geographic Representation of Bear Lake Formation Measured Sections 3 Bear Lake 4 BRISTOL BAY Port Moller 4  $\geq$ Bear Lake 3 2 Mudstone or siltstone Broad trough cross-stratification Epsilon cross-stratification Convolute bedding £ 2 Flaser/Wavy bedding Outsized sedimentary clasts Wavy/Lenticular bedding Shells or shell fragments Ripple-laminated Logs or log fragments \ \ \ \ Planar cross-stratification Leaves or leaf fragments Ш Trough cross-stratifiaction The Bear Lake 1, 3, 4, and 5 sections were measured on a more or less continuous set of ridges with covered or steep intervals Bear Lake 2 represented by a break in the section. 50 220 4 Left Head 1 Coal Point 1 200 Bear Lake 1 Chronostratigraphic correlation of the Bear Lake Formation measured sections. Correlations are based on palynological (red lines) or macrofossil (green lines) interpretations. - 27 4 Palynological age interpretations based on samples collected ш during the 2004 field season. Marine macrofossil age Bear Lake 5 Depositional Environments of Bear Lake **Formation Measured Sections** PROXIMAL INTERTIDAL
CHANNELS AND MUD-RICH FLATS SUBTIDAL CHANNEL AND SANDY MACROFORMS ● Oyster banks M Marsh CONGLOMERATIC STORM LAYERS Lateral accretion bedding SWALEY BEDDING DISTAL Block diagram illustrating interpreted depositional environments for the Bear Lake Formation measured sections. This figure is intended only to show the interpreted depositional environment for individual measured sections. This is not a depositional model, and does not imply any chronological or depositional relationships between sections. m vf m vc p b s f c g c m | vf | m | vc | p | b s f c g c m | vf | m | vc | p | b | s | f | c | g | c